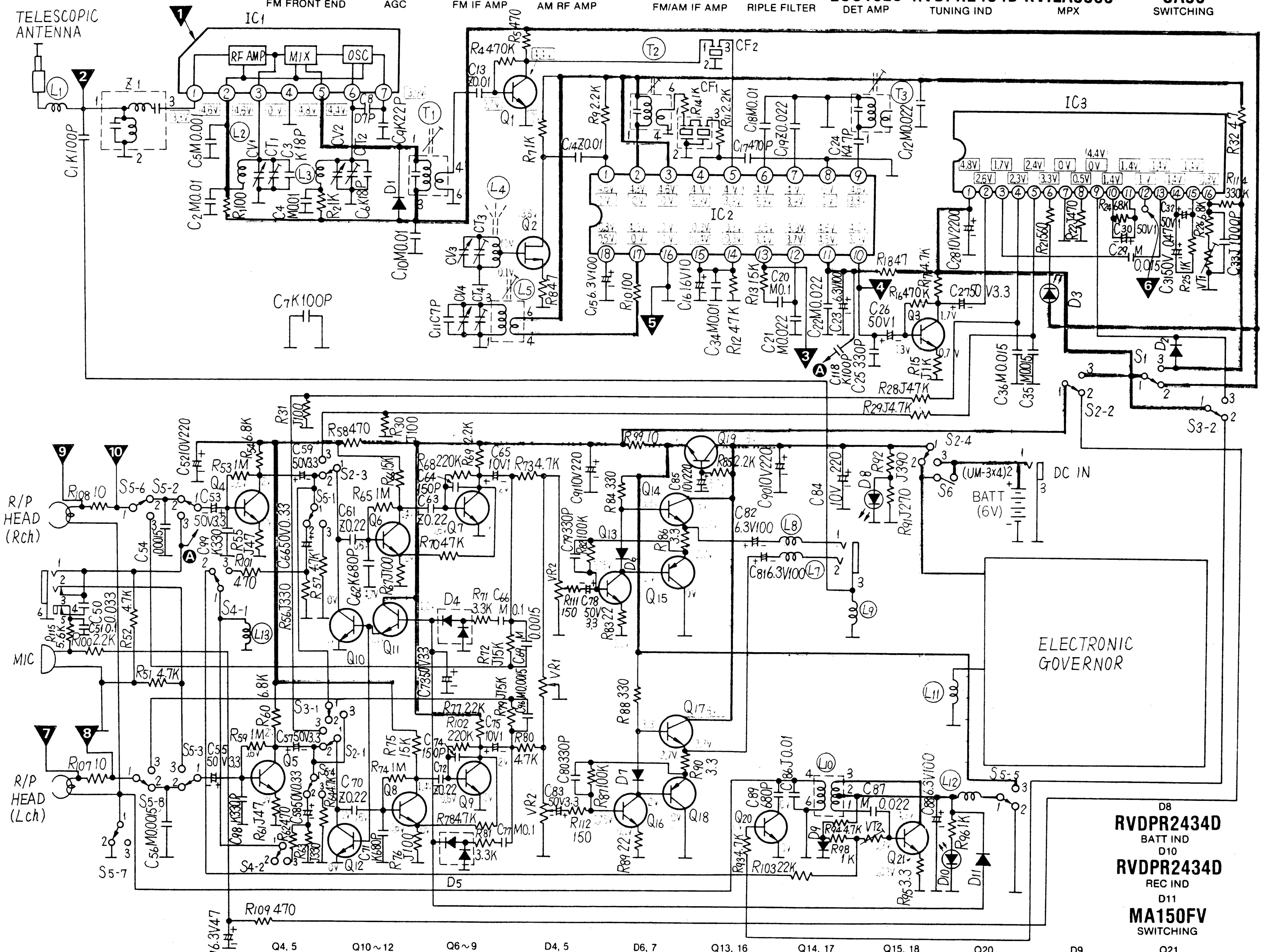
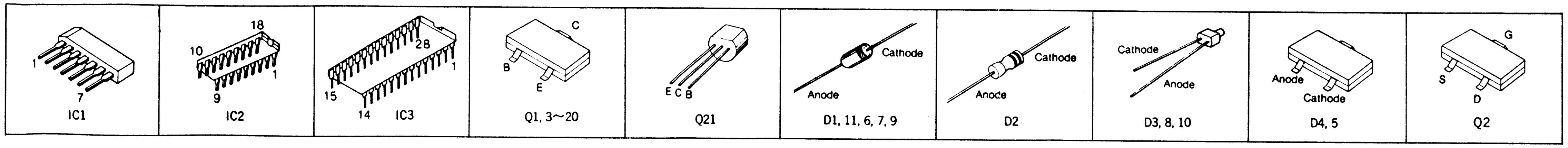
SCHEMATIC DIAGRAM MODEL RX-1950

IC1	D1	Q1	Q2	IC2	Q19	Q3	D3	IC3	D2
AN7213	**MA150FV**	**2SC1009**	**2SK160**	**AN7220A**	**2SD813**	**2SC1623**	**RVDPR2434D**	**RVILA3365**	**0A90**
FM FRONT END	AGC	FM IF AMP	AM RF AMP	FM/AM IF AMP	RIPLE FILTER	DET AMP	TUNING IND	MPX	SWITCHING


TELESCOPIC ANTENNA
IC1
RF AMP
MIX
OSC
IC2
IC3
T1
T2
T3
CF1
CF2
L1
L2
L3
L4
L5
Q1
Q2
Q3
R/P HEAD (Rch)
MIC
R/P HEAD (Lch)
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
Q19
Q20
Q21
D4
D5
D7
D8
D9
D10
D11
VR1
VR2
VT2
S1
S2-1
S2-2
S2-3
S2-4
S3-1
S3-2
S3-3
S4-1
S4-2
S5-1
S5-2
S5-3
S5-5
S5-6
S5-7
S5-8
S6
DC IN
(UM-3×4)2
BATT (6V)
ELECTRONIC GOVERNOR
L7
L8
L9
L10
L11
L12
L13
R109 470
C97 6.3V47

D8
RVDPR2434D
BATT IND
D10
RVDPR2434D
REC IND
D11
MA150FV
SWITCHING

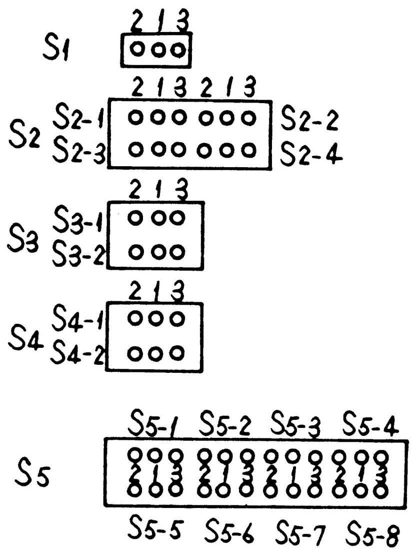
Q4, 5	Q10～12	Q6～9	D4, 5	D6, 7	Q13, 16	Q14, 17	Q15, 18	Q20	D9	Q21
2SC1623	**2SC1623**	**2SC1623**	**MA153**	**MA27WB**	**2SC1623**	**2SD601**	**2SB709**	**2SC1623**	**MA27WB**	**2SC945**
REC AMP	AGC	EQ AMP	AGC	AOC	DRIVER	POWER AMP	POWER AMP	SWITCHING	AOC	BIAS OSC


1
7
IC1
18
10
9
1
IC2
28
15
14
1
IC3
C
B
E
Q1, 3～20
E C B
Q21
Cathode
Anode
D1, 11, 6, 7, 9
Cathode
Anode
D2
Cathode
Anode
D3, 8, 10
Anode
Cathode
D4, 5
G
S
D
Q2

Notes:

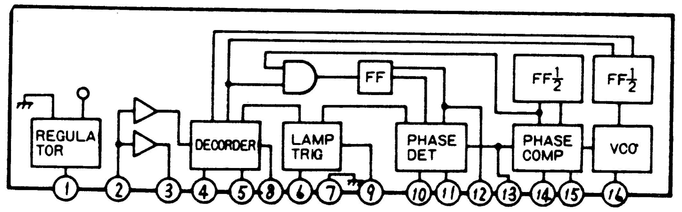
1. S1: Band selector switch in "FM" Position.
   (2...FM, 3...AM)
2. S2-1～S2-4: Function switch in "Tape" Position.
   (2...Tape, 3...Radio)
3. S3-1, S3-2: Mode switch in "Stereo" Position.
   (2...Stereo, 3...Mono)
4. S4-1, S4-2: Tape selector switch in "Normal" Position.
   (2...Normal, 3...Metal)
5. S5-1～S5-8: R/P switch in "PLayback" Position.
   (2...Playback, 3...Record)
6. S6: Motor switch.
7. VR1......Balance control, VR2......Voume control
   VT1......VCO Adjustment, VT2......Bias current Adjustment
8. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
   [ ]...FM position, ( )...AM position
9. Battery current, No signal 47mA
   Maximum Output (Radio) 65mA
   Maximum Output (Tape) 152mA

BOTTOM VIEW

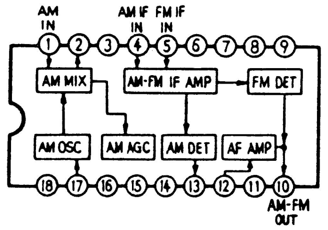

S1
2 1 3
S2
2 1 3 2 1 3
S2-1
S2-3
S2-2
S2-4
S3
2 1 3
S3-1
S3-2
S4
2 1 3
S4-1
S4-2
S5
S5-1
S5-2
S5-3
S5-4
S5-5
S5-6
S5-7
S5-8

IC BLOCK DIAGRAM

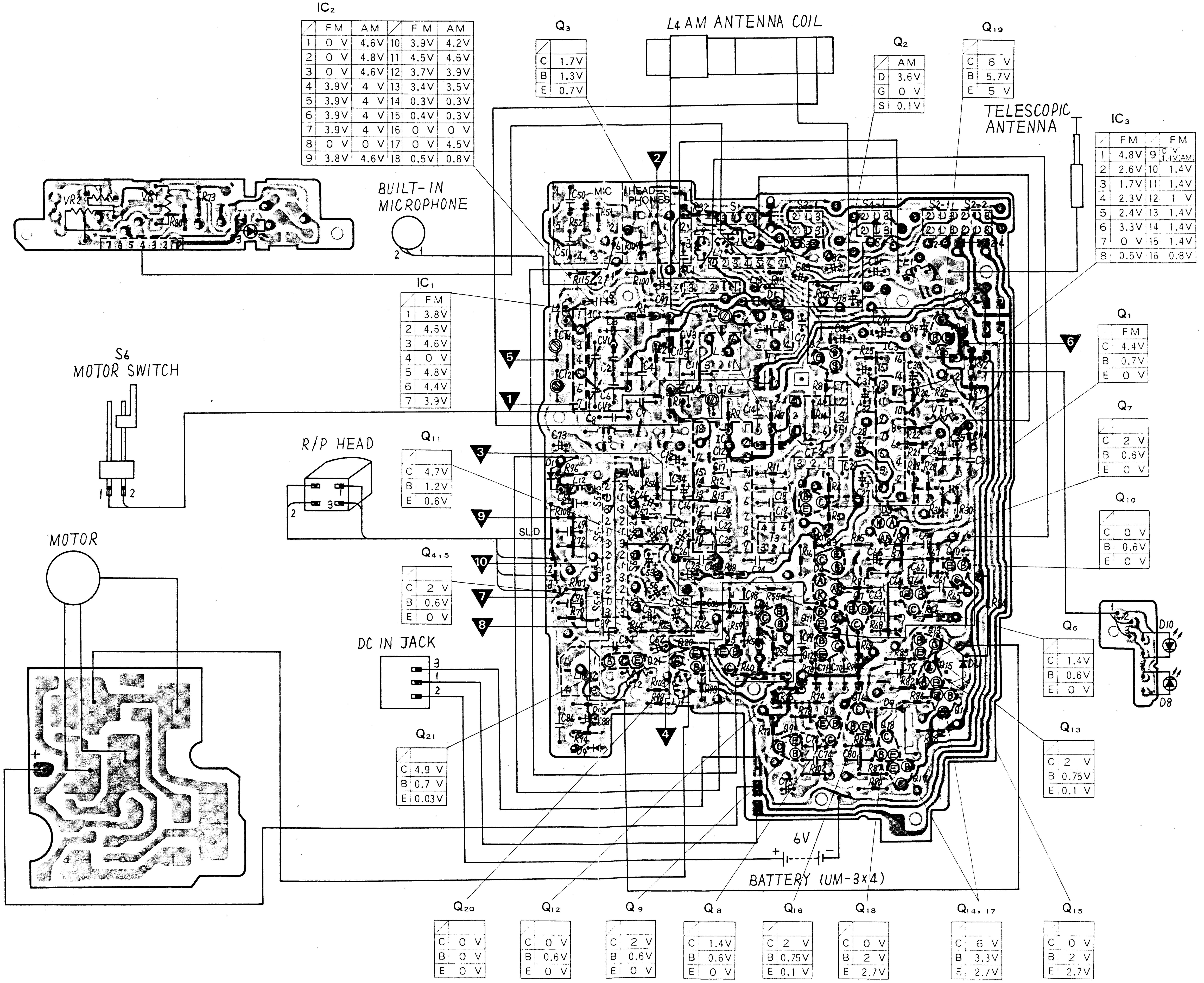
IC3 RVILA3365


REGULATOR
DECORDER
LAMP TRIG
PHASE DET
PHASE COMP
VCO
FF
FF½
FF½
1
2
3
4
5
8
6
7
9
10
11
12
13
14
15
16

IC2 AN7220A


AM IN
AM IF IN
FM IF IN
AM MIX
AM-FM IF AMP
FM DET
AM OSC
AM AGC
AM DET
AF AMP
AM-FM OUT
1
2
3
4
5
6
7
8
9
18
17
16
15
14
13
12
11
10

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-1950


L4 AM ANTENNA COIL
TELESCOPIC ANTENNA
BUILT-IN MICROPHONE
S6 MOTOR SWITCH
R/P HEAD
MOTOR
DC IN JACK
MIC
HEAD PHONES
SLD
VR2
VR1
R73
R80
D10
D8
+
6V
BATTERY (UM-3x4)

IC$_2$

	FM	AM		FM	AM
1	0 V	4.6V	10	3.9V	4.2V
2	0 V	4.8V	11	4.5V	4.6V
3	0 V	4.6V	12	3.7V	3.9V
4	3.9V	4 V	13	3.4V	3.5V
5	3.9V	4 V	14	0.3V	0.3V
6	3.9V	4 V	15	0.4V	0.3V
7	3.9V	4 V	16	0 V	0 V
8	0 V	0 V	17	0 V	4.5V
9	3.8V	4.6V	18	0.5V	0.8V

Q$_3$

C	1.7V
B	1.3V
E	0.7V

Q$_2$

	AM
D	3.6V
G	0 V
S	0.1V

Q$_{19}$

C	6 V
B	5.7V
E	5 V

IC$_3$

	FM		FM
1	4.8V	9	0 V 4.4V(AM)
2	2.6V	10	1.4V
3	1.7V	11	1.4V
4	2.3V	12	1 V
5	2.4V	13	1.4V
6	3.3V	14	1.4V
7	0 V	15	1.4V
8	0.5V	16	0.8V

IC$_1$

	FM
1	3.8V
2	4.6V
3	4.6V
4	0 V
5	4.8V
6	4.4V
7	3.9V

Q$_1$

	FM
C	4.4V
B	0.7V
E	0 V

Q$_7$

C	2 V
B	0.6V
E	0 V

Q$_{11}$

C	4.7V
B	1.2V
E	0.6V

Q$_{10}$

C	0 V
B	0.6V
E	0 V

Q$_{4,5}$

C	2 V
B	0.6V
E	0 V

Q$_6$

C	1.4V
B	0.6V
E	0 V

Q$_{21}$

C	4.9 V
B	0.7 V
E	0.03V

Q$_{13}$

C	2 V
B	0.75V
E	0.1 V

Q$_{20}$

C	0 V
B	0 V
E	0 V

Q$_{12}$

C	0 V
B	0.6V
E	0 V

Q$_9$

C	2 V
B	0.6V
E	0 V

Q$_8$

C	1.4V
B	0.6V
E	0 V

Q$_{16}$

C	2 V
B	0.75V
E	0.1 V

Q$_{18}$

C	0 V
B	2 V
E	2.7V

Q$_{14, 17}$

C	6 V
B	3.3V
E	2.7V

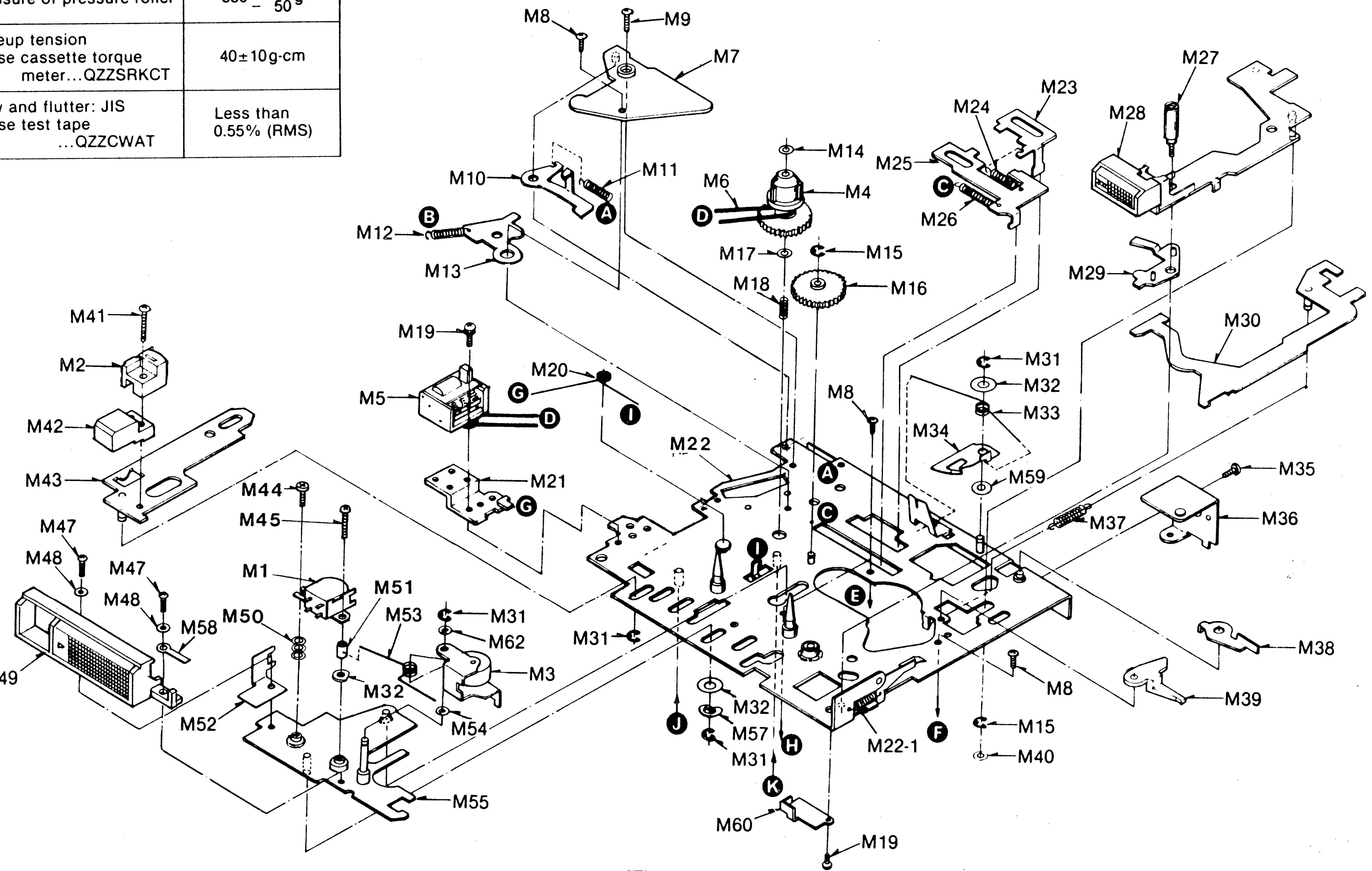
Q$_{15}$

C	0 V
B	2 V
E	2.7V

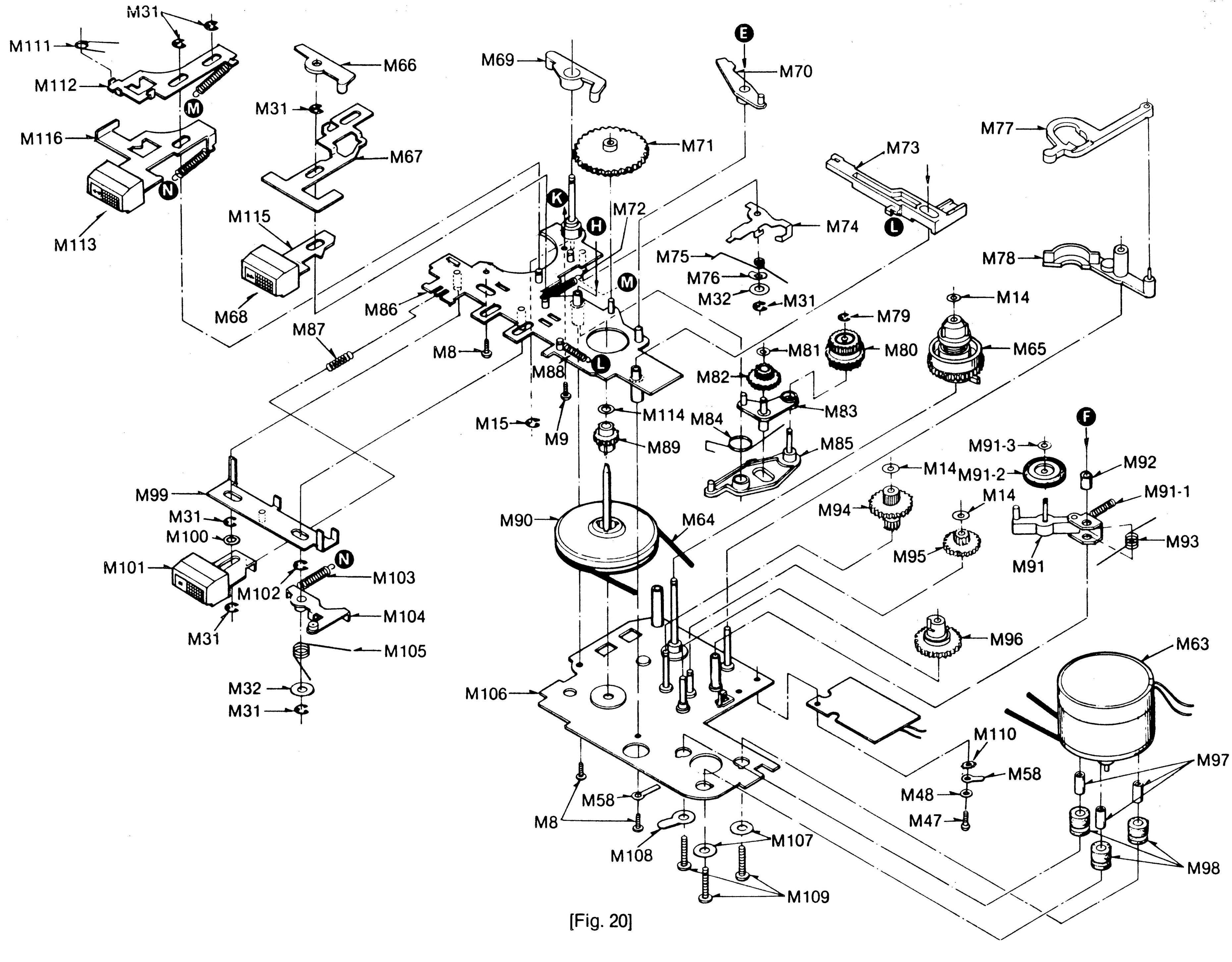
MECHANISM PARTS LOCATION

SPECIFICATIONS

Pressure of pressure roller	350^{+100}_{-50} g
Takeup tension * Use cassette torque meter...QZZSRKCT	40±10g·cm
wow and flutter: JIS * Use test tape ...QZZCWAT	Less than 0.55% (RMS)


M8
M9
M7
M27
M23
M24
M28
M25
M14
M11
M10
M6
M4
A
B
M12
D
C
M26
M17
M15
M13
M18
M16
M29
M30
M41
M19
M31
M2
M20
G
M32
M5
D
I
M8
M33
M42
M22
M34
A
M59
M35
M43
M21
G
C
M44
M36
M37
M45
M47
I
M48
M1
M51
E
M47
M31
M50
M53
M38
M48
M58
M62
M31
M49
M3
M32
M8
M39
M32
M52
M54
J
M57
F
M15
M31
H
M22-1
M40
K
M55
M60
M19

[Fig. 19]


M31
M111
M66
M69
E
M70
M112
M31
M116
M71
M77
M67
M73
K
M115
M72
H
M74
N
L
M113
M75
M78
M76
M14
M32
M31
M68
M86
M87
M79
M81
M80
M65
M8
M88
L
M82
M83
M114
M84
M15
M9
M85
F
M89
M91-3
M92
M14
M91-2
M99
M14
M91-1
M31
M94
M90
M64
M100
M93
M95
M91
M101
N
M103
M102
M104
M31
M105
M96
M63
M32
M106
M31
M110
M97
M58
M48
M58
M47
M8
M107
M108
M98
M109

[Fig. 20]

■ FM MPX ADJUSTMENT

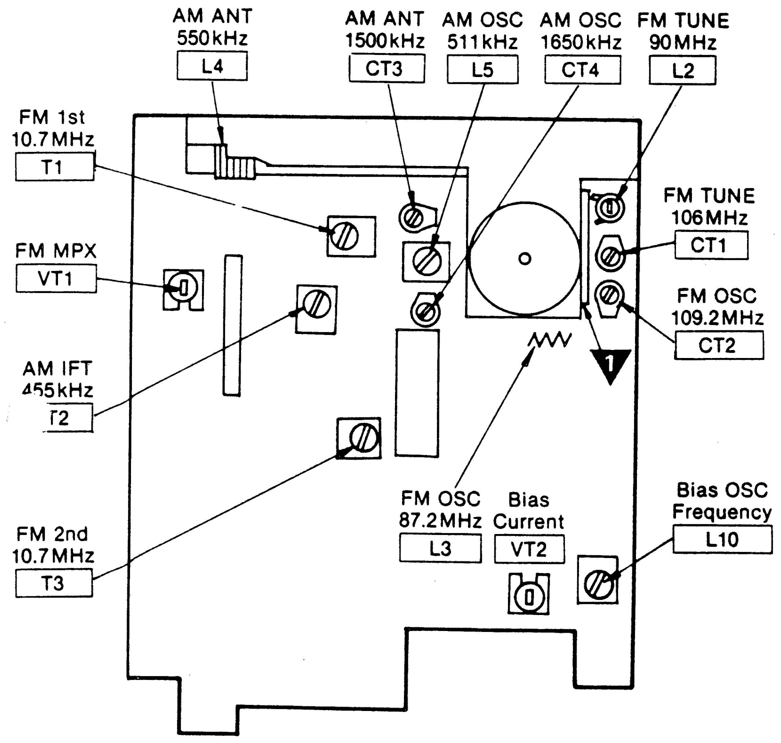
ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	90MHz, 60dB	▼6 ...(+) side earth...(−) side	VT1	19kHz	Adjust VR1 for 19kHz (±150Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	Headphones Jack	Maximum output	Azimuth screw	Playback mode
Bias Oscillation Frequency	—	(Lch) ▼7......(+) ▼8......(−) (Rch) ▼9......(+) ▼10......(−)	54.0kHz±0.2kHz	L10	Record mode. Stereo mode. Tape Selector→Normal
Bias current	—		4.0±0.3mV	VT2	Record mode. Tape Selector→Normal

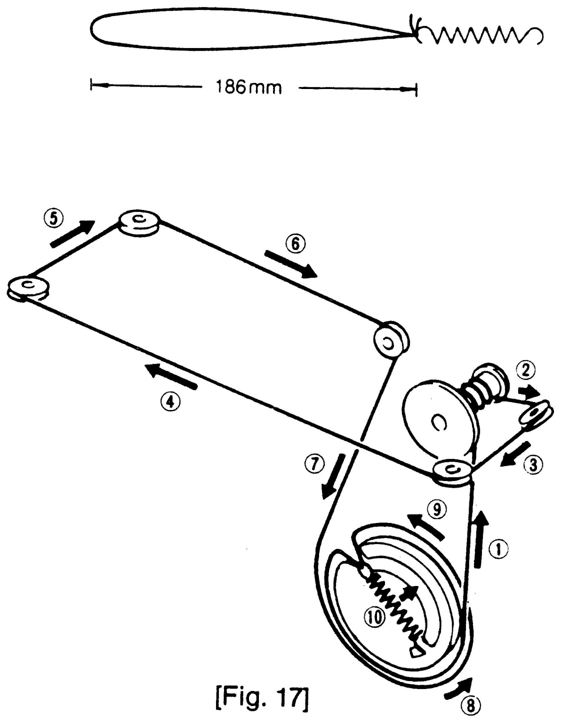
ALIGNMENT POINTS

Note:
Please refer to Circuit Board and Wiring Connection Diagram in which test point are located.


AM ANT 550kHz L4
AM ANT 1500kHz CT3
AM OSC 511kHz L5
AM OSC 1650kHz CT4
FM TUNE 90MHz L2
FM 1st 10.7MHz T1
FM MPX VT1
AM IFT 455kHz T2
FM 2nd 10.7MHz T3
FM TUNE 106MHz CT1
FM OSC 109.2MHz CT2
FM OSC 87.2MHz L3
Bias Current VT2
Bias OSC Frequency L10
1

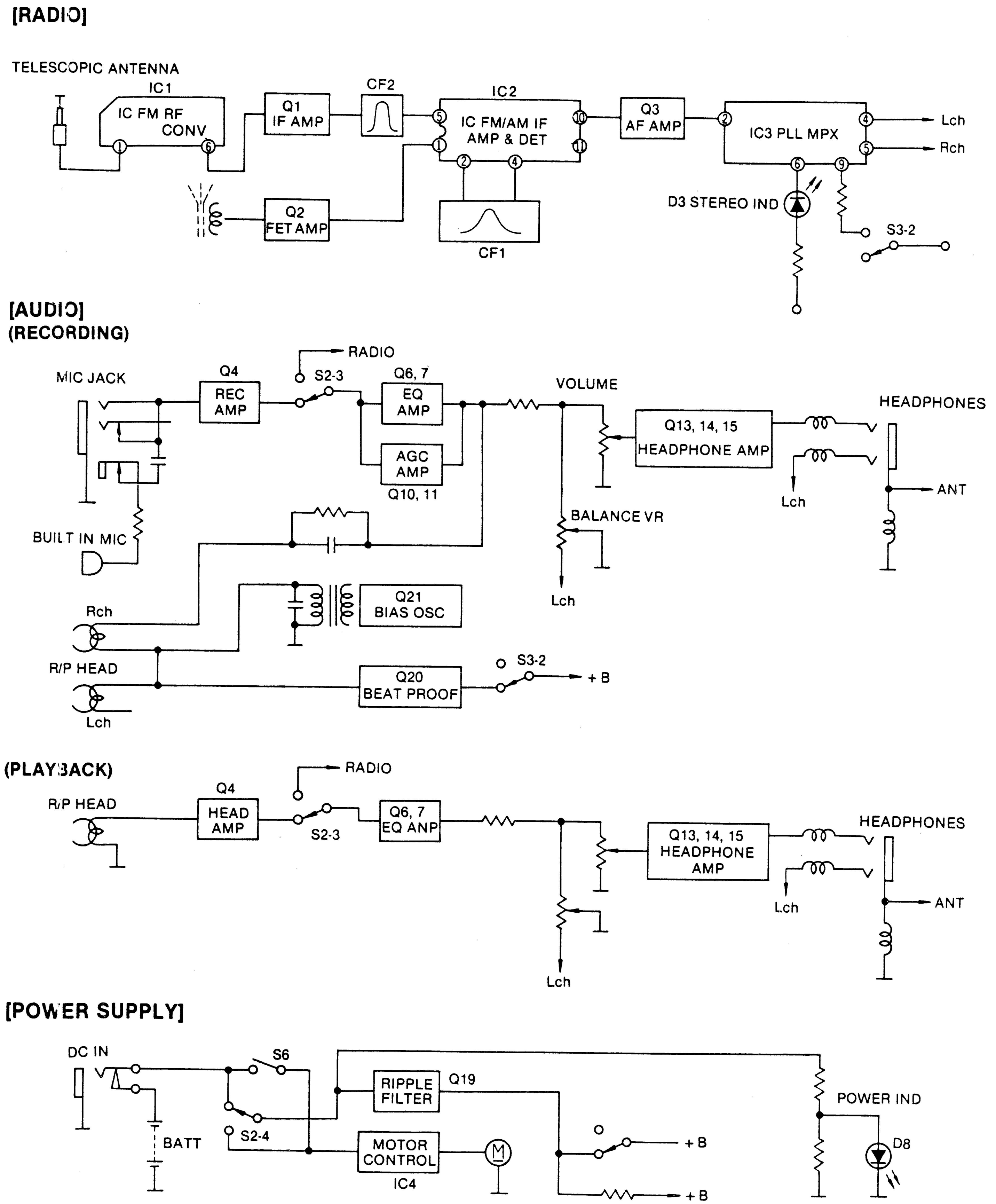
[Fig. 16]

DIAL THREADING


186mm
⑤
⑥
④
②
③
⑦
⑨
①
⑩
⑧

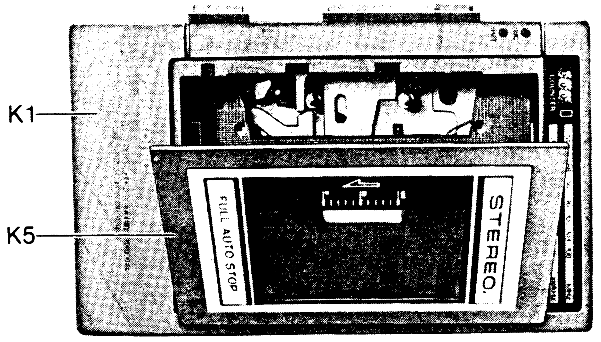
[Fig. 17]

BLOCK DIAGRAM

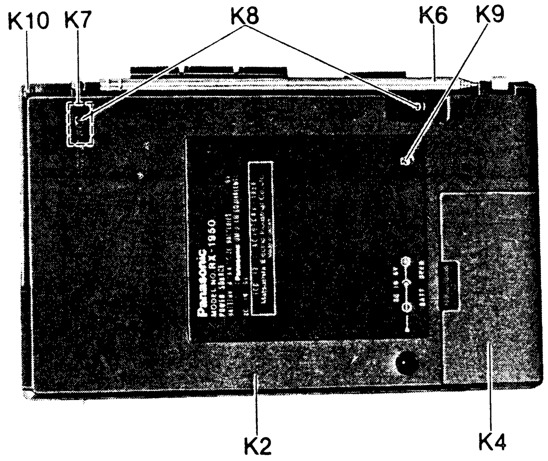

[RADIO]
TELESCOPIC ANTENNA
IC1
IC FM RF CONV
Q1 IF AMP
CF2
IC2
IC FM/AM IF AMP & DET
Q3 AF AMP
IC3 PLL MPX
Lch
Rch
Q2 FET AMP
CF1
D3 STEREO IND
S3-2
[AUDIO]
(RECORDING)
MIC JACK
Q4 REC AMP
RADIO
S2-3
Q6, 7 EQ AMP
AGC AMP Q10, 11
VOLUME
Q13, 14, 15 HEADPHONE AMP
HEADPHONES
Lch
ANT
BALANCE VR
BUILT IN MIC
Lch
Rch
Q21 BIAS OSC
R/P HEAD
Q20 BEAT PROOF
S3-2
+B
Lch
(PLAYBACK)
RADIO
R/P HEAD
Q4 HEAD AMP
S2-3
Q6, 7 EQ ANP
Q13, 14, 15 HEADPHONE AMP
HEADPHONES
Lch
ANT
Lch
[POWER SUPPLY]
DC IN
S6
BATT
S2-4
RIPPLE FILTER
Q19
MOTOR CONTROL
IC4
M
+B
+B
POWER IND
D8

[Fig. 18]

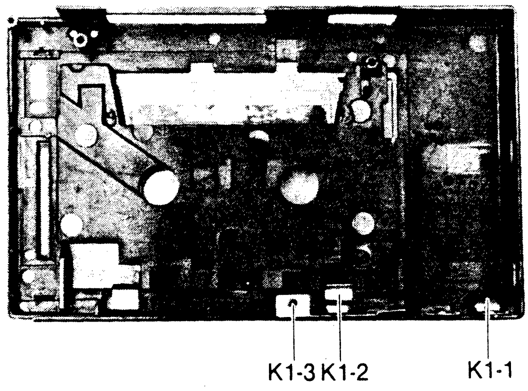
CABINET PARTS LOCATION


K1
K5
FULL AUTO STOP
STEREO

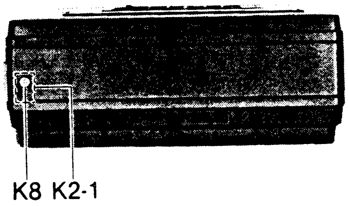
[Fig. 21]


K10
K7
K8
K6
K9
K2
K4

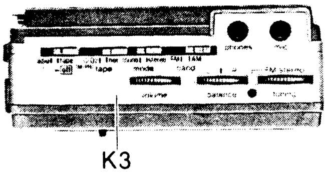
[Fig. 22]



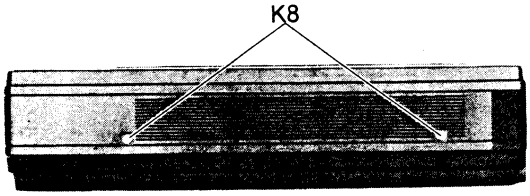
[Fig. 23]



[Fig. 24]

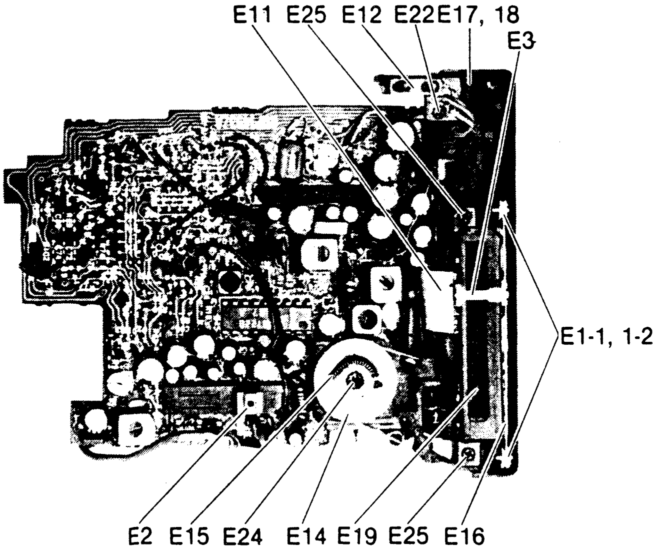


[Fig. 25]

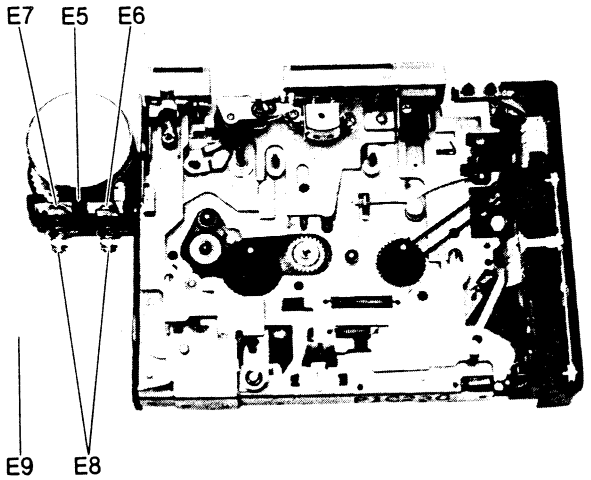


[Fig. 26]

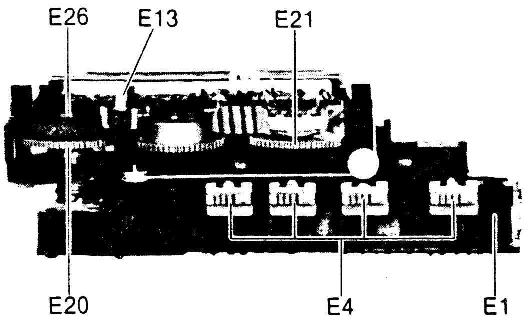
ELECTRICAL PARTS LOCATION


E11
E25
E12
E22
E17, 18
E3
E1-1, 1-2
E2
E15
E24
E14
E19
E25
E16

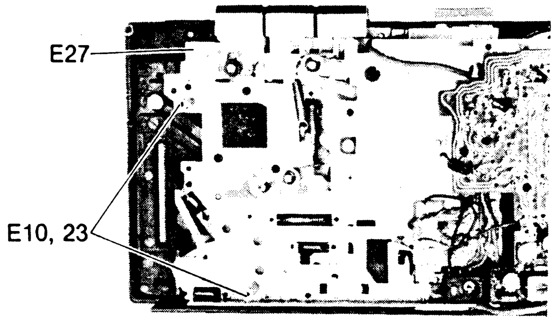
[Fig. 27]


E7
E5
E6
E9
E8

[Fig. 28]

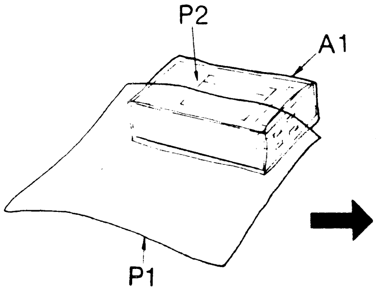

E26
E13
E21
E20
E4
E1

[Fig. 29]

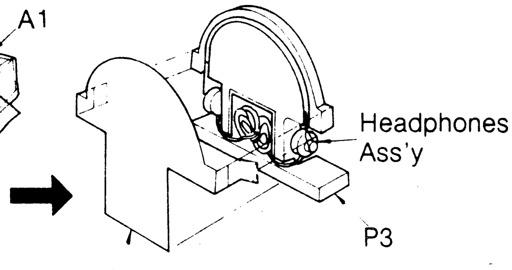


[Fig. 30]

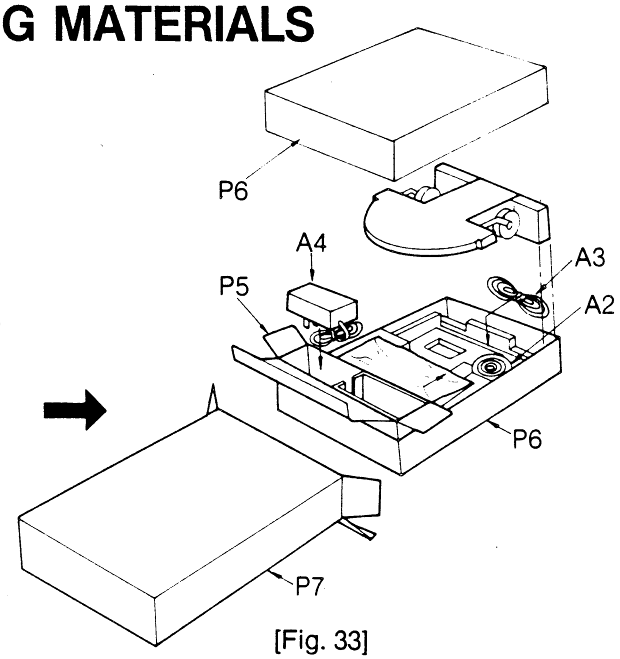
ACCESSORY AND PACKING MATERIALS



[Fig. 31]

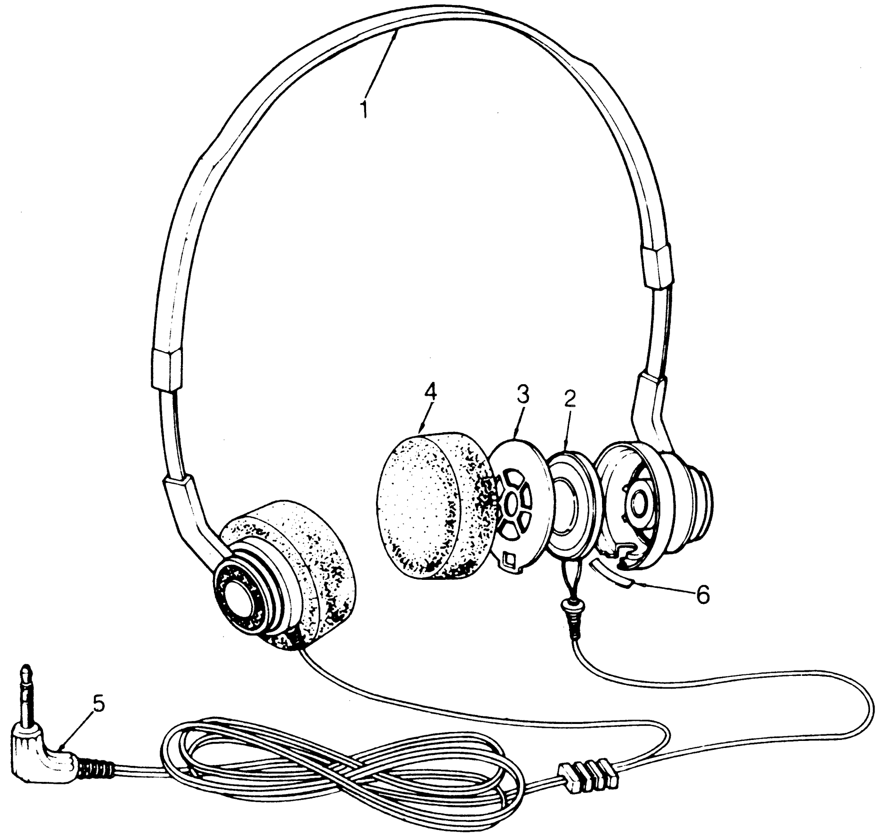

Headphones
Ass'y
P3
P4

[Fig. 32]


P6
A4
A3
P5
A2
P6
P7

[Fig. 33]

HEADPHONES PARTS LOCATION



[Fig. 34]

■ REPLACEMENT PARTS LIST....................Model RX-1950

(RD81085212C1)

NOTES: 1. Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M1	QWY4134Y	Record/Playback Head	1	
M2	QWY2147Z	Erase Head	1	
M3	QXL1455	Pinch Roller Lever Ass'y	1	
M4	QXD0116	Reel Table Ass'y, Left Side	1	
M5	QDC0129	Tape Counter	1	
M6	QDB0284	Belt, Counter	1	
M7	QMH2058	Rod Holder	1	
M8	XQN16B3FZ	Screw, Rod Holder	7	
M9	XQN16B5FZ	Screw, Rod Holder	2	
M10	QML3793	Bracket, Erase Safety	1	
M11	QBT1899	Spring, Erase Safety Bracket	1	
M12	QBT1902	Spring, Record Rod	1	
M13	QML3623	Lever, Record	1	
M14	QBW2008	Washer	4	
M15	XUC15FT	Circlip	3	S
M16	QDG1212	Gear (8)	1	
M17	QBKA0006	Washer	1	
M18	QBCT0010	Spring, Flywheel	1	
M19	XSN2+3	Screw, Tape Counter Plate	2	S
M20	QBN1767	Spring, FF/REW Lever	1	
M21	QMZ1248	Tape Counter Plate	1	
M22	QXK2506	Base Ass'y	1	
M22-1	QBT1898	Spring, Eject Lever	1	
M23	QMR1907	Switch Rod (B)	1	
M24	QBT1923	Spring, Switch Rod (B)	1	
M25	QMR1906	Switch Rod (A)	1	
M26	QBT1904	Spring, Switch Rod (A)	1	
M27	QMP1801	Guide, Pause Rod	1	
M28	QXR0742	Pause Rod Ass'y	1	
M29	QXL1427	Pause Lever Ass'y	1	
M30	QXR0620	Eject Rod Ass'y	1	
M31	XUC2FT	Circlip	11	S
M32	XWE3A7BW	Washer	3	
M33	QBN1768	Spring, Pause Lock Plate	1	
M34	QML3626	Pause Lock Plate	1	
M35	XQS16C35FN	Screw, Rod Holder	1	
M36	QXA1121	Rod Holder Ass'y	1	
M37	QBT1926	Spring, Eject Rod	1	
M38	QML3625	Cassette Lid-Up Lever	1	
M39	QML3638	Auto Safety Lever	1	
M40	QBW2042	Washer	1	
M41	XSN2+10	Screw, Erase Head	1	
M42	QGO1815	Button, Rec.	1	
M43	QXK2310	Base Ass'y, Erase Head	1	
M44	XSN2+11	Screw, Record/Playback Head	1	
M45	XSN2+10	Screw, Record/Playback Head	1	
M46	QTD1293	Wire Clamper	1	
M47	XSN2+5	Screw, Playback Button	3	
M48	XWA2B	Washer	4	
M49	QXB0725	Playback Button Ass'y	1	
M50	QBC1339	Spring, Head	1	
M51	QMC0142	Spacer, Head	1	
M52	QMG0101	Tape Guide	1	
M53	QBN1807	Spring, Pinch Roller Lever	1	
M54	QBW2015	Washer	1	
M55	QXK2511	Head Base Ass'y	1	
M56	XSN2+4	Screw	1	
M57	QBP1519	Washer	1	
M58	QTD1163	Wire Clamper	3	
M59	QBJA3025	Washer	1	
M60	QMA4062	Head Base Holder	1	
M61	XQN2A2FN	Screw	1	
M62	QBW2014	Washer	1	
M63	HCE3A6RDA	DC Motor	1	
M64	QDB0283	Belt, Motor	1	
M65	QXD0115	Reel Table Ass'y, Right Side	1	
M66	QML3635	Cue Lever (B)	1	
M67	QMR1855	FF/Rew Rod	1	
M68	QXB0730	Button, FF	1	
M69	QML3637	Lever, Switch	1	
M70	QML3634	Lever, Idler Driving	1	
M71	QDG1206	Gear (2)	1	
M72	QBT1900	Spring, Playback Rod	1	
M73	QMR1862	Rod, Lock Release	1	
M74	QML3648	Gear Lever	1	
M75	QBN1769	Spring, Gear Lever	1	
M76	QBP1519	Washer	1	
M77	QML3632	Auto Lever (B)	1	
M78	QXL1374	Auto Lever (A) Ass'y	1	
M79	XUC12FT	Circlip	1	
M80	QXG1049	FF Gear Ass'y	1	
M81	QBW2010	Washer	1	
M82	QDG1210	Gear (6)	1	
M83	QXL1378	FF Lever (B) Ass'y	1	
M84	QBN1764	Spring, FF Lever	1	
M85	QXL1377	FF Lever (A) Ass'y	1	
M86	QXH0376	Button Holder Ass'y	1	
M87	QBC1377	Spring, Stop Button	1	
M88	QBT1901	Spring, Lock Plate	1	
M89	QDG1205	Gear (1)	1	
M90	QXF0166	Flywheel	1	
M91	QXL1387	Idler Lever Ass'y	1	
M91-1	QBT1903	Spring, Pause Rod	1	
M91-2	QXI0114	Takeup Idler Ass'y	1	
M91-3	QBW2030	Washer	1	
M92	QMC0106	Collar	1	
M93	QBN1762	Spring, Idler	1	
M94	QDG1207	Gear (3)	1	
M95	QDG1208	Gear (4)	1	
M96	QDG1209	Gear (5)	1	
M97	QMC0107	Motor Collar	3	
M98	QBG1678	Motor Rubber	3	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M99	QXR0619	Lock Plate Ass'y	1	
M100	QBJA2016	Washer	1	
M101	QXB0727	Stop Button Ass'y	1	
M102	XUC25FT	Circlip	1	
M103	QBT1906	Spring, Rewind Rod	1	
M104	QXC1375	Cue Lever Ass'y	1	
M105	QBN1763	Spring, Cue Lever	1	
M106	QXK2411	Lower Base Plate Ass'y	1	
M107	XWE2A7	Washer	2	
M108	QTDA0004	Terminal, Earth	1	
M109	XSN2+10	Screw, Motor	3	
M110	XWC2B	Washer	1	
M111	QBN1765	Spring, Head Base	1	
M112	QMR1852	Playback Rod	1	
M113	QXB0728	Button, Rewind	1	
M114	QBJ3098	Washer	1	
M115	QMR1853	FF Rod	1	
M116	QMR1854	Rewind Rod	1	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC1	AN7213	IC	1	
IC2	AN7220A	IC	1	
IC3	RVILA3365	IC	1	
Q1	2SC1009F3	Transistor (Si)	1	S
Q2	2SK160K4	Transistor (Si)	1	S
Q3∿13,16,20	2SC1623L6A	Transistor (Si)	13	S
Q14,17	2SD601R	Transistor (Si)	2	S
Q15,18	2SB709R	Transistor (Ge)	2	S
Q19	2SD596DV3	Transistor (Si)	1	S
Q21	2SC945-Q	Transistor (Si)	1	S
D1,11	MA161	Diode (Si)	2	S
D2	2OA90	Diode (Ge)	1	S
D3,8,10	RVDPR2434D	Diode (Ga)	3	
D4,5	MA153	Diode (Si)	2	
D6,7,9	MA27WB	Diode (Si)	3	
		COILS AND TRANSFORMERS		
L2	RLO4N125	Coil, FM Tuning	1	
L3	RLO4Y19	Coil, FM Oscillator	1	
L4	RLF2Y13	Coil, AM Antenna	1	
L5	RLO2A4	Coil, AM Oscillator	1	
L7,8,13	RLQZ22G3	Choke Coil	3	
L9	RLQZ1004	Choke Coil	1	
L10	QLB0178	Coil, Bias Oscillator	1	
L12	RLQZL101KV	Choke Coil	1	
T1	RLI4M101	IFT, FM	1	S
T2	QLI2M102M	IFT, AM	1	
T3	RLI4A4	IFT, FM	1	
		VARIABLE RESISTORS		
VR1	EVLAQAA00G54	Variable Resistor, 50kΩ (G)	1	
VR2	EVUCAAT65C14	Variable Resistor, 10kΩ (C)	1	
VT1,2	EVNA6AA00B14	Variable Resistor, Preset, 10kΩ (B)	2	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		VARIABLE CAPACITORS		
VC1∿4	RCV4LC32	Tuning Capacitor	1	
CT1∿4	RCVMCX1-10S	Trimmer Capacitor	4	
		CERAMIC FILTERS		
CF1	RVFCM2455B	Ceramic Filter	1	
CF2	RVF107MAZ	Ceramic Filter	1	
		COMPONENT COMBINATION		
Z1	RXABPWB5	Component Combination	1	
		SWITCHES		
S1	RSS2A16Z	Switch, Band	1	
S2	RSS2D07Z	Switch, Function	1	
S3,4	RSS2B26Z	Switch, Mode/Tape	2	
S5	RSS2H01Z	Switch, Record/Playback	1	
S6	RSH1A25Z	Switch, Motor	1	
		JACKS		
J1	RJJ1B1Z	Jack, DC IN	1	
J2	RJJ1D9Z	Jack, Mic	1	
J3	RJJ1D6Z	Jack, Headphones	1	
		RESISTORS (Value is in OHMS)		
R1	RRD18XK101	100 1/8W Chip	1	
R2	RRD18XK102	1 k " "	1	
R4	RRD18XK474	470 k " "	1	
R5	RRD18XK471	470 " "	1	
R7	RRD18XK102	1 k " "	1	
R8	RRD18XK470	47 " "	1	
R9	RRD18XK222	2.2 k " "	1	
R10	RRD18XK101	100 " "	1	
R11	RRD18XK222	2.2 k " "	1	
R12	RRD18XK473	47 k " "	1	
R13	RRD18XK153	15 k " "	1	
R14	RRD18XK102	1 k " "	1	
R15	RRD18XJ102	1 k " "	1	
R16	RRD18XK474	470 k " "	1	
R17	RRD18XK472	4.7 k " "	1	
R18	RRD18XK470	47 " "	1	
R21	RRD18XK561	560 " "	1	
R22	RRD18XJ471	470 " "	1	
R24	RRD18XK104	100 k " "	1	
R25	RRD18XK102	1 k " "	1	
R26	RRD18XK682	6.8 k " "	1	
R28,29	RRD18XJ472	4.7 k " "	2	
R30,31	RRD18XJ101	100 " "	2	
R32	RRD18XK470	47 " "	1	
R51,52	RRD18XK472	4.7 k " "	2	
R53	RRD18XK105	1 M " "	1	
R54	RRD18XK682	6.8 k " "	1	
R55	RRD18XJ470	47 " "	1	
R56	RRD18XJ331	330 " "	1	
R57	RRD18XK472	4.7 k " "	1	
R58	RRD18XK471	470 " "	1	
R59	RRD18XK105	1 M " "	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R60	RRD18XK682	6.8 k 1/8W Chip	1	
R61	RRD18XJ470	47 " "	1	
R62	RRD18XK471	470 " "	1	
R63	RRD18XJ331	330 " "	1	
R64	RRD18XK472	4.7 k " "	1	
R65	RRD18XK105	1 M " "	1	
R66	RRD18XK153	15 k " "	1	
R67	RRD18XJ101	100 " "	1	
R68	RRD18XK334	330 k " "	1	
R69	RRD18XK222	2.2 k " "	1	
R70	RRD18XK473	47 k " "	1	
R71	RRD18XK332	3.3 k " "	1	
R72	RRD18XJ123	12 k " "	1	
R73	RRD18XK472	4.7 k " "	1	
R74	RRD18XK105	1 M " "	1	
R75	RRD18XK153	15 k " "	1	
R76	RRD18XJ101	100 " "	1	
R77	RRD18XK222	2.2 k " "	1	
R78	RRD18XK473	47 k " "	1	
R79	RRD18XJ123	12 k " "	1	
R80	RRD18XK472	4.7 k " "	1	
R81	RRD18XK332	3.3 k " "	1	
R82	RRD18XK104	100 k " "	1	
R83	RRD18XK220	22 " "	1	
R84	ERD10TJ331	330 " Carbon	1	S
R85	RRD18XK222	2.2 k " Chip	1	
R86	RRD18XK3R3	3.3 " "	1	
R87	RRD18XK104	100 k " "	1	
R88	RRD18XK331	330 " "	1	
R89	RRD18XK220	22 " "	1	
R90	RRD18XK3R3	3.3 " "	1	
R91	RRD18XJ271	270 " "	1	
R92	RRD18XJ391	390 " "	1	
R93,94	RRD18XK472	4.7 k " "	2	
R95	RRD18XK3R3	3.3 " "	1	
R96	RRD18XK102	1 k " "	1	
R98	RRD18XK102	1 k " "	1	
R99	RRD18XK100	10 " "	1	
R100	RRD18XK222	2.2 k " "	1	
R101	RRD18XK471	470 " "	1	
R102	RRD18XK334	330 k " "	1	
R103	RRD18XK103	10 k " "	1	
R107	ERD25FJ100	10 1/4W Carbon	1	S
R108	RRD18XK100	10 1/8W Chip	1	
R109	RRD18XK471	470 " "	1	
R111,112	ERD10TJ151	150 " Carbon	2	S
R114	ERD10TJ334	330 k " "	1	S
R115	RRD18XK562	5.6 k " Chip	1	
R116	ERD25TJ104	100 k 1/4W Carbon	1	S
R117	ERD25FJ470	47 " "	1	S
R118	ERD10TJ472	4.7 k 1/8W "	1	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C1	ECUX1H101KD	100 P 50V Chip	1	
C2	ECUX1H103MD	0.01 " "	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C3	ECUX1H180KC	18 P 50V Chip	1	
C4	ECUX1H103MD	0.01 " "	1	
C5	ECUX1H102MD	0.001 " "	1	
C6	ECUX1H180KC	18 P " "	1	
C7	ECCD1H101K	100 P " Ceramic	1	
C8	ECUX1H070DC	7 P " Chip	1	
C9	ECUX1H220KC	22 P " "	1	
C10	ECUX1H103MD	0.01 " "	1	
C11	ECUX1H070DC	7 P " "	1	
C12	ECUX1H223MD	0.022 " "	1	
C13,14	ECUX1H103ZF	0.01 " "	2	
C15	ECEA1AS101	100 10V Electrolytic	1	S
C16	ECEA1HS100	10 50V "	1	S
C17	ECUX1H471KD	470 P " Chip	1	
C18	ECUX1H103MD	0.01 " "	1	
C19	ECUX1H223ZF	0.022 " "	1	
C20	ECUX1E104MD	0.1 " "	1	
C21,22	ECUX1H223MD	0.022 " "	2	
C23	ECEA1AS101	100 10V Electrolytic	1	S
C24	ECUX1H470KC	47 P 50V Chip	1	
C25	ECUX1H331KD	330 P " "	1	
C26	ECEA50Z1	1 " Electrolytic	1	S
C27	ECEA50Z3R3	3.3 " "	1	S
C28	ECEA1AS221	220 10V "	1	S
C29	ECUX1H153MD	0.015 50V Chip	1	
C30	ECEA50Z3R3	3.3 " Electrolytic	1	S
C31	ECEA50ZR47	0.47 " "	1	S
C32	ECEA50Z1	1 " "	1	S
C33	RCQP2A102JZ	1000 P 100V Polyester	1	
C34	ECUX1H223MD	0.022 50V Chip	1	
C35,36	ECUX1H153MD	0.015 " "	2	
C50	ECUX1H333ZF	0.033 " "	1	
C51	ECUX1E104MD	0.1 " "	1	
C52	ECEA1AS221	220 10V Electrolytic	1	S
C53	ECEA50Z3R3	3.3 50V "	1	S
C54	ECKD1H152MD	0.0015 " Ceramic	1	
C55	ECEA50Z3R3	3.3 " Electrolytic	1	S
C56	ECUX1H152MD	0.0015 " Chip	1	
C57	ECEA50Z3R3	3.3 " Electrolytic	1	S
C58	ECEA1HSR33	0.33 " "	1	
C59	ECEA50Z3R3	3.3 " "	1	S
C60	ECEA1HSR33	0.33 " "	1	
C61	ECUX1E224ZF	0.22 " Chip	1	
C62	ECUX1H681KD	680 P " "	1	
C63	ECUX1E224ZF	0.22 " "	1	
C64	ECUX1H151KD	150 P " "	1	
C65	ECSF1AM105	1 10V Electrolytic	1	
C66	ECUX1E104MD	0.1 50V Chip	1	
C69	ECUX1H332MD	0.0033 " "	1	
C70	ECUX1E224ZF	0.22 " "	1	
C71	ECUX1H681KD	680 P " "	1	
C72	ECUX1E224ZF	0.22 " "	1	
C73	ECEA50Z3R3	3.3 " Electrolytic	1	S
C74	ECUX1H151KD	150 P " Chip	1	
C75	ECSF1AM105	1 10V Electrolytic	1	
C77	ECUX1E104MD	0.1 50V Chip	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C78	ECEA50Z3R3	3.3 50V Electrolytic	1	S
C79,80	ECUX1H331KD	330 P " Chip	2	
C81,82	ECEA1AS101	100 10V Electrolytic	2	S
C83	ECEA50Z3R3	3.3 50V "	1	S
C84,85	ECEA1AS221	220 10V "	2	S
C86	ECQV05103JZ	0.01 50V Polyester	1	
C87	ECUX1H223MD	0.022 " Chip	1	
C88	ECEA1AS101	100 10V Electrolytic	1	S
C89	ECUX1H681KD	680 P 50V Chip	1	
C90,91	ECEA1AS221	220 10V Electrolytic	2	S
C96	ECUX1H332MD	0.0033 50V Chip	1	
C97	ECEA1AS470	47 10V Electrolytic	1	S
C98,99	ECUX1H331KD	330 P 50V Chip	2	
C110	ECUX1H101KD	100 P " "	1	
C111	ECEA1HS100	10 " Electrolytic	1	S
		CABINET PARTS		
K1	RYMX1950M91	Front Cabinet Assembly	1	
K1-1	RJC935Z	Terminal, Battery	2	
K1-2	RUS431Z	Spring, Cassette Cover	1	
K1-3	XTNR2+4CFZ	Screw, Spring M'tg	1	
K2	RYFX1950M91	Rear Cabinet Assembly	1	
K2-1	RUL649Z	Bracket, Cabinet	1	
K3	RYEX1950M	Indicating Plate Assembly	1	
K4	RYNX1950M91	Battery Cover Assembly	1	
K5	RYQX1950M5	Cassette Lid Assembly	1	
K6	XEARK106EAY	Telescopic Antenna	1	
K7	RJT752Z	Terminal, Antenna	1	
K8	XSHR2+4FN	Screw, Cabinet M'tg	8	
K9	XSHR2+8FN	Screw, Cabinet M'tg	2	
K10	XTNR2+20CFN	Screw, Cabinet M'tg	1	
		ELECTRICAL PARTS		
E1	RZAX1950N	Dial Chassis Assembly	1	
E1-1	RDR32Z	Roller	5	
E1-2	RDY45Z	Shaft	4	
E2	RUB251Z	Record/Playback	1	
E3	RDP827Z1	Pointer, Dial	1	
E4	RBD149Z	Knob, Switch	4	
E5	RUA497Z	Battery Holder	1	
E6	RJC314Y	Terminal, Battery + Side	1	
E7	RJC364Z	Terminal, Battery + Side	1	
E8	RJC741Z	Spring, Battery - Side	2	
E9	RHS11A	Ribbon	1	
E10	RHD1501Z	Stay Shaft	2	
E11	RJE110Z	Leadwire	1	
E12	RMP174Z	LED Holder	1	
E13	RMP173Z	LED Holder	1	
E14	RDD182Z	Drum, Dial	1	
E15	RDS2055Z	Spring, Dial	1	
E16	RDZ03Y	Cord, Dial	1 ROLL	
E17	WM063X	Microphone	1	
E18	RHG568Z	Cover, Microphone	1	
E19	RDH181Z	Guide, Pointer	1	
E20	RBT143Z	Knob, Tuning	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E21	RBT145Z	Knob, Volume	1	
E22	XTNR2+4CFZ	Screw, Circuit Board M'tg	1	
E23	XWA2B	Washer, Stay Shaft	2	S
E24	XSHR17+2FZ	Screw, Knob, Drum etc. M'tg	4	
E25	XTNR2+6CFZ	Screw, Dial Chassis etc. M'tg	4	
E26	XNG2CBW	Nut, Tuning Knob M'tg	1	S
E27	XTSR2+6CFN	Screw, Mechanism M'tg	1	
		ACCESSORIES		
A1	RQD171Y	Case	1	
A2	RQC2003Z	Belt	1	
A3	RJP256Z	Cord	1	
A4	RD9445M	AC Adaptor	1	⚠
		PACKING MATERIALS		
P1	XZB26X20A04	Polyethylene Cover	1	S
P2	RPH368Z	Soft Sheet	1	
P3	RPN9383Y	Pad Complete	1	
P4	RPE419Z	Display	1	
P5	RPE420Z	Accessory Box	1	
P6	RPK1237Z	Gift Box	1	
P7	RPS97Z	Sleeve	1	
		PRINTED MATERIAL		
Y1	RQX6825Z	Instruction Book	1	
		HEADPHONES		
	RD9217MA	Headphone Assembly	1	
1	EAHMHH028AC	Head Band Assembly	1	
2	EAHEAS2P03A	Speaker	2	
3	EAHMP016A	Buffle	2	
4	EAHME020A	Ear Pad	2	
5	EAHMN038	Input Cord	1	
6	EAHMZ231	Label	2	